

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF SOUTH CAROLINA  
DOCKET NO. 2013-275-WS**

**A STUDY OF THE FEASIBILITY OF ESTABLISHING AN INTERCONNECTION FOR THE PROVISION  
OF BULK WATER DISTRIBUTION SERVICE BY CAROLINA WATER SERVICE, INC. TO THE FORTY  
LOVE POINT AND INDIAN FORK SUBDIVISIONS**

**EXHIBIT 1**

**COST ESTIMATE**

## Opinion of Probable Construction Costs

**Project:** Forty Love Water System Evaluation

**WK Dickson No:** 20110006.00.CA

**Owner:** Utilities, Inc.

**Date:** September 2014

### Forty Love Water System Evaluation: Alternative 1

Construction of approximately 6,200 linear feet of 12-inch water line, one (1) connection to the City of Columbia Water System, and one (1) connection to the existing water system providing water service to Forty Love. Tie to City of Columbia's system at the intersection of Wessinger Road and Dutch Fork Road. In conjunction with the interconnection, the existing water system supply components will also be decommissioned.

### Forty Love Water System Interconnection with the City of Columbia Preliminary Cost Estimate: Alternative 1

ITEM	DESCRIPTION	UNIT	EST QTY	UNIT COST	TOTAL
<b>Water Main</b>					
1	Mobilization	LS	1	\$ 25,000	\$ 25,000
2	Clearing and Grubbing	AC	2.15	\$ 3,000	\$ 6,450
3	12" Ductile Iron Water Line	LF	6,200	\$ 50	\$ 310,000
4	12" Gate Valve and Box	EA	2	\$ 2,500	\$ 5,000
5	Road Crossings to include Jack & Bore	LF	150	\$ 300	\$ 45,000
6	Connection to Existing Water Line (40 Love)	EA	1	\$ 3,000	\$ 3,000
7	Water Meter Installation (City of Columbia 10-inch Water Meter )	EA	1	\$ 60,000	\$ 60,000
8	Pressure Reducing Valve / Backflow Preventer with Meter Vaults	LS	1	\$ 15,000	\$ 15,000
9	Erosion and Sedimentation Control Measures	LS	1	\$ 10,000	\$ 10,000
10	Rock Removal/Blasting (Estimated)	CY	1,150	\$ 150	\$ 172,500
11	Restoration of Disturbed Areas	AC	2.15	\$ 3,000	\$ 6,450
12	Driveway Patch/Repair	EA	5	\$ 400	\$ 2,000
	<b>Subtotal</b>				<b>\$ 660,400</b>
<b>Additional Fire Protection (40 Love Only)</b>					
13	Fire Hydrant Assembly with Appurtenances	EA	9	\$ 3,500	\$ 31,500
	<b>Subtotal</b>				<b>\$ 31,500</b>
<b>Decommissioning of Existing Water System Supply Components</b>					
14	Abandonment of Existing Groundwater Wells (Per State Regulations)*	EA	7	\$ 4,000	\$ 28,000
15	Capping and Abandonment of Existing Water Lines to Hydropneumatic Tanks	EA	4	\$ 1,000	\$ 4,000
16	Demolition/Removal/Disposal of Existing Buildings (various sizes)	EA	5	\$ 10,000	\$ 50,000
17	Demolition/Removal/Disposal of Hydropneumatic Tank (20k Gallons)	EA	1	\$ 12,500	\$ 12,500
18	Demolition/Removal/Disposal of Hydropneumatic Tank (10k Gallons)	EA	1	\$ 10,000	\$ 10,000
19	Demolition/Removal/Disposal of Hydropneumatic Tank (5k Gallons)	EA	3	\$ 7,500	\$ 22,500
20	Site Restoration/Landscaping Associated with System Decommissioning	LS	1	\$ 50,000	\$ 50,000
	<b>Subtotal</b>				<b>\$ 177,000</b>
	<b>Interconnection Subtotal</b>				<b>\$ 868,900</b>
	<b>10% Contingency</b>				<b>\$ 79,390</b>
	<b>City of Columbia Tap Fee**</b>				<b>\$ 5,400</b>
	<b>Interconnection Total</b>				<b>\$ 953,690</b>
<b>Technical Services</b>					
	Surveying and Engineering				<b>\$ 94,310</b>
	<b>Opinion of Probable Project Cost</b>				<b>\$ 1,048,000</b>

\* Wells Abandonment \$10 per LF for a 6-Inch Well assuming an average well depth of 400'